REBECCA MARTIN, PH.D.

Research scientist and psychologist with 18 years of quantitative and qualitative analysis and project management experience. Skilled at operationalizing precise research questions and high impact research programs, leading cross-functional teams and producing clear, high quality deliverables to stakeholders. Author of 18 peer-reviewed publications, 4 articles for the general public, and over 36 invited talks and conference presentations. Recipient of 6 fellowship grants awarded by the NIH and Leon Levy Foundation.

🏛 EDUCATION

2017 — **Columbia University**
Ph.D. Psychology and Cognitive Neuroscience — 📍 New York, NY

• Dissertation: Influencing emotions: how brain development and social factors shape affective responses

2009 — **Harvard Graduate School of Education**
M.Ed. Mind, Brain, and Education — 📍 Cambridge, MA

2006 — **UC Santa Cruz**
M.A.T. Secondary School Social Science Teaching — 📍 Santa Cruz, CA

2003 — **New York University**
B.A. History — 📍 New York, NY

🖥 EXPERIENCE

2022 | Present — **Senior Research Fellow, Consumer Response**
Consumer Financial Protection Bureau — 📍 Washington, D.C. (Remote)

• Designed NLP program to identify and analyze stress in consumer complaints from start to finish including open source model testing and selection, model fine-tuning, validation with human ratings, statistical analysis, and presentation of work to Bureau leaders and at federal, AI, and academic conferences

• Created cross-bureau research group with UX, Data Science, Special Populations, and Research teams to share knowledge and skills

• Performance feedback highlights: "flexible and adapted quickly to changing demands and priorities", "skilled at identifying what matters for a given project to succeed"

2021 | 2022 — **Research Director, Communication Neuroscience Lab**
University of Pennsylvania — 📍 Philadelphia, PA

• Managed multi-institutional, international research teams across academia, industry, and government on projects investigating health, climate, and behavior change

• Quickly adapted to new protocols and challenges due to the pandemic and got study up and running and collected data in record time

• Set up data structures, aggregated and analyzed large, complex data from multiple sources (brain, behavioral, survey, & population-level data)

✉ rebecca.martin@gmail.com
🏠 https://beckmart.github.io/
🎓 google scholar
⌨ github.com/beckmart
📞 +1 408-219-3894

🔧 SKILLS

Quantitative & qualitative analysis
Survey & experiment design
Project management
Science communication
Technical & non-technical writing
Teaching / mentorship

📊 DATA ANALYSIS

Machine learning, NLP, LLMs
Data visualization (e.g., ggplot2)
Linear & nonlinear modeling
Longitudinal & multilevel modeling
Bayesian data analysis
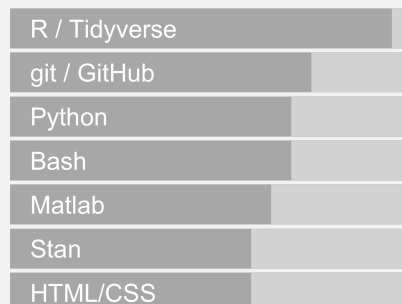Reinforcement learning
Data pipeline development

🧪 METHODS

Lab / field / online studies
Randomized control trials
Interventions
Structured interviews
Surveys
Magnetic resonance brain imaging
Psychophysiology inc. eye-tracking
Diary / EMA

</> PROGRAMMING

R / Tidyverse
git / GitHub
Python
Bash
Matlab
Stan
HTML/CSS

2017
|
2022

Postdoctoral Fellow, Hartley Lab
New York University   New York, NY

- Designed and ran multiple studies from end to end and managed team examining how exploration and learning changes with age using reinforcement learning modeling; led to 5 publications and proceedings
- Worked with cross-functional team of scientists, software engineers, UX designers, and teachers to develop large-scale citizen science online experiment platform product, mindHIVE, and accompanying curriculum for student-teacher-scientist collaborations; analyzed quantitative and qualitative data leading to 3+ publications

2011
|
2017

Graduate Research Fellow, Ochsner SCAN Lab
Columbia University   New York, NY

- Led multiple studies from start to finish on use of social norms interventions to regulate emotions and improve eating choices resulting in 3 publications and 11 conference presentations
- Led data collection and analysis of multi-institutional research team on two-wave longitudinal study investigating emotion-regulation development from childhood to adulthood resulting in 3+ publications and 4 conference presentations
- Lead instructor for 8 research methods courses totaling ~650 students; TA-ed 5 courses totaling ~600 students

2008
|
2011

Technical Assistant, Gabrieli Lab
Massachusetts Institute of Technology   Cambridge, MA

- Conducted brain imaging research, recruitment, behavioral testing, literature reviews, data management and analysis, and grant writing for studies investigating executive functioning and memory development resulting in 6 publications and 10 conference presentations; Implemented marketing techniques that increased recruitment by 200%

2006
|
2008

High School Teacher
Berkeley High School   Berkeley, CA

- Designed and taught 6 courses to 300 students of all skill levels for large, diverse urban public school

⭐ SELECTED ACCOMPLISHMENTS & SERVICE

2008
|
2022

Academic Awards

- Postdoctoral NIH National Research Service Award Fellowship (2019-2022; scored in top 29th percentile)
- Leon Levy Neuroscience Fellowship (2018-2019)
- Institutional National Research Service Award Fellowship (2017)
- Predoctoral National Research Service Award Fellowship (2015-2017; scored in top 6th percentile)
- Won inaugural Edward E. Smith Award for accomplishments in Cognitive Neuroscience (2014)
- Elected Harvard Graduate School of Education Student Government Senator (2008-2009)
- Selected to be Harvard Class Commencement Marshal (2009)

1996
|
2020

Misc

- Olympic Training Squad, US National Team Member, and world-ranked synchronized swimmer (1996-2001)
- Selected to be Research and Production Intern at Saturday Night Live (2002-2003)
- Wrote adolescent advocacy policy briefs (Raise the Age, Miranda Rights) with Scientist Action and Advocacy Network
- Science outreach volunteer: gave neuroscience talks to local schools and organized science expos (2008-2020)
- Mentored 27 students and research staff